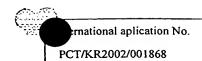
PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PCT00114	FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)						
International application No. PCT/KR2002/001868	International filing date(day/mo	onth/year)	Priority date (day/month/year) 19 APRIL 2002 (19.04.2002)				
International Patent Classification (IPC IPC7 H01L 21/3065) or national classification and IP	C .	<u>-</u>				
PSK INC. et al	·						
This international preliminary e and is transmitted to the applica	xamination report has been prep nt according to Article 36.	ared by this Inter	mational Preliminary Examining Authority				
 This REPORT consists of a total of3sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). 							
These annexes consist of a tota	l ofsheets.						
3. This report contains indications relating to the following items: I X Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application							
Date of submission of the demand	Da	te of completion of	of this report				
11 NOVEMBER 2003 (11.11	1.2003)	23 JULY 20	004 (23.07.2004)				
Name and mailing address of the IPE Korean Intellectual Properties 920 Dunsan-dong, Seo- Republic of Korea Faccimile No. 82-42-472-7140	perty Office gu, Daejeon 302-701,	KIM, Jun Hak	VELLIN				





I.	Basis	of the report	· ·					
1.	With	regard to the elements of the international application:*						
	X	the international application as originally filed						
	$\overline{\Box}$	the description:						
		pages	, as originally filed					
		pages , filed with the letter of	, filed with the demand					
		pages, filed with the letter of	·					
		the claims:	, as originally filed					
	_	pages, as amended (together with an	y statment) under Article 19					
		pages, filed with the letter of	, filed with the demand					
		pages, filed with the letter of						
		the drawings:						
		pages	_ , as originally filed					
		pages	, filed with the demand					
		pages, filed with the letter of						
	Ш	the sequence listing part of the description: pages	, as originally filed					
		pages	, filed with the demand					
		pages, filed with the letter of						
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application(under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/ or 55.3).							
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
	\sqcup	contained inthe international application in written form.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form						
		The statement that the subsequently furnished written sequence listing does not go be	eyond the disc losure in the					
		international applicationas as filed has been furinshed.	written sequence listing has					
	Ш	The statement that the information recorded in computer readable form is identical to the been furnished.	written sequence fishing has					
	_							
4.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
		the drawings, sheet						
5.		This report has been established as if (some of) the amendments had not been made, sin go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	ce they have been considered to					
	in th	lacement sheets which have been furnished to the receiving Office in response to an invitation uses opinion as "originally filed." and are not annexed to this report since they do not contain 70.17).	nder Article 14 are referred to n amendments (Rules 70.16					
** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.								

	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement
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1.	Statement	~:"	,	
	Novelty (N)	Claims	7-9	 YES
		Claims	1-6	 NO
	Inventive step (IS)	Claims	7-9	YES
	,	Claims	1-6	NO
-	- Industrial applicability (IA)	Claims	1-9.	 YES
		Claims		NO
1				

2. Citations and explanations (Rule 70.7)

Citations

D1 JP10-135186(1998.5.28)

NOVELTY(N) and INVENTIVE STEP(IS)

1. D1 discloses the method of ash resist that the sample-placing surface of a sample stage is heated by means of a heating mechanism, and a sample carried onto the stage is raised to a prescribed height from the stage by raising lift pins. When the sample is raised, a hardened resist layer on the sample is removed by a generating plasma in a plasma chamber, while an ashing gas is supplied to the chamber.

However the prior art does not suggest or teach the additional step of over-ashing in which plasma is continuously generated even after almost all of the photoresists have been removed by plasma, and the step of silicon substrate being a pad-etched substrate. Therefore claims 7-9 which include this feature are considered novel and inventive.

The invention of claims 1-6 is a method of ash resist by a generating plasma in a plasma chamber which is an essential feature of the invention, and the feature that differentiate the invention of the prior art D1.

Therefore Claims 1-6 which do not include this feature are considered to lack novelty and inventive step.

INDUSTRIAL APPLICABITY(IA)

The claims 1-9 is industrially applicable in allowing the ashing method for a semiconductor manufacturing process.